

# SERVICE MANUAL PARTS LIST

# UPRIGHT VACUUM CLEANER MODELS:

**U-80** 

**U-90** 



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XII.- PARTS LIST FOR UPRIGHT VACUUM CLEANER U-90

DECEMBER-10

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#### I.-FINAL TEST FOR PRODUCT SAFETY

At the completion of any repairs the product should be electrically tested for operating and electric strength as follows.

#### 1.-ELECTRIC TEST

- 1. Set hi-pot test meter at 1500 Volts
- 2. Lower product handle to "ON" position
- 3. Place one probe of tester to one blade of the power cord plug and place the other probe to the handle tube, there should be no breakdown.

#### 2.-OPERATING TEST

Run the machine with the height adjustment knob on high position and check.

- 1. There should be no unusual noise or vibration.
- 2. The carbon brushes spark should be small and uniform.
- 3. The current should not exceed 7.0 Amps

#### II. REPLACEMENT PROCEDURES

#### 1.-TO REMOVE BAG

1.1.-Release spring, from handle, slide off coupling unit.

#### 2.-TO REMOVE HANDLE TUBE (2 AND 8) FIG.1 AND FIG.3

- 2.1.-Pull out the line cord from the cord retainer (5)
- 2.2-Remove the nut and screw (14,15 AND 7) and pull out the tube.

#### 3.-TO REPLACE BELT (49), FIG.2 AND FIG.4.

- 3.1.-Turn the upright upwards.
- 3.2.-Remove the bottom plate (23)and the fan cover by pressing and releasing one side of the retaining shaft(22)
- 3.3.-Pull and twist the belt over the pulley to remove it.
- 3.4.-Pull the brush roll (21) from the ends to take it out of the chassis.
- 3.5.-First, place the new belt on the brush roll, then place brush roll in the chassis, put the belt on the pulley verifying that the belt is in the right position, Finally, assemble the fan cover and bottom plate.

#### 4.-TO REPLACE BRUSH ROLL (21) OR BEARING SUPPORTS FIG. 2 AND FIG.4.

- 4.1.-Follow steps 3.1 to 3.4.
- 4.2.-Remove the supports by pulling them out.
- 4.3.-Replace the new brush roll as indicated in item number 3.5.

#### 5.-TO REPLACE REAR WHEELS (5), FIG.2 AND FIG.4.

- 5.1.-Remove the cover(2) as described in procedure number 7.
- 5.2.-Pull washer cap retainer (6) from rear wheel hub (41) and remove the wheels.
- 5.3.-Replace the new wheels by placing the washers (9), the wheels as well as the padlocks.
- 5.4.-Place the cover back in position.

#### 6.-TO REPLACE FRONT WHEELS (11), FIG.2 AND FIG.4.

- 6.1.-Remove cover (2) as described in procedure number 7.
- 6.2.-Remove screws (7) from the front axle retainer and the front axle spring (10).
- 6.3.-Take out front axle with the wheels.
- 6.4.-Remove the old wheel and place the new wheels..
- 6.5.-Replace the axle, the retainers and the spring.
- 6.6.-Place the cover back in position.

#### 7.-TO REMOVE THE COVER (2), FIG.2 AND FIG.4.

- 7.1.-Remove the bag assy as described in procedure number 1.
- 7.2.-Release and lower the handle(39) to a horizontal position.
- 7.3.-Unscrew and pull out the height adjustment knob (1).
- 7.4.-Turn around the upright be careful not to scratch the cover.
- 7.5.-Use a flat screwdriver to release the snaps of the cover hood in the chassis(18)

#### 8.-TO REPLACE MOTOR (51), FIG.2 AND FIG.4.

- 8.1.-Uplug the machine.
- 8.2.-Remove belt follow steps 3.1 to 3.3.
- 8.3.-Remove cover (step 7).
- 8.4.-Remove the four screws (4) that hold the motor and disconnect it.
- 8.5.-Replace the motor (51)

#### 9.-TO REPLACE HEIGHT ADJUSTMENT LEVER (I5), FIG.2 AND FIG.4

- 9.1.-Release pedal lower the handle(39) and place the handle tube in horizontal position.
- 9.2.-Remove the screw (14) and the adjustment knob (1)
- 9.3.-Remove the spring(10) and screw (44), to remove the retain for lever(17).

#### 10.-TO FOOT RELEASE PEDAL (39) FIG.2 AND FIG.4

- 10.1.-Remove cover (step 7)
- 10.2.-Remove spring (40) from chassis
- 10.3.-Pull pedal towards spring side and remove

#### 11.-TO REPLACE YOKE ASSEMBLY (54), FIG.2 AND FIG.4

- 11.1.-Remove cover (step 7)
- 11.2.-Remove foot pedal (step 10)
- 11.3.-Remove the yoke bolt (31), along with the security locks (20)

#### 12.-TO REPLACE THE LINE CORD ASSEMBLY (25), FIG.2 AND FIG.4

- 12.1.-Remove cover (step 7)
- 12.2.-Remove strain relief (26) from chassis with strain relief pliers
- 12.3.-Reassemble with the strain relief pliers making sure to locate the strain relief as it was before.

#### 13.-TO REPLACE THE ON - OFF SWITCH (48), FIG.2 AND FIG.4.

- 13.1.-Remove cover (step 7)
- 13.2.-Disconnect the electrical terminal from the switch.
- 13.3.-Press the side tabs on the switch and pull it out.
- 13.4.-Place and push the new switch into the opening until the tabs snap in and reconnect the terminal.

#### WHEN ORDERING, DO NOT FORGET TO SPECIFY:

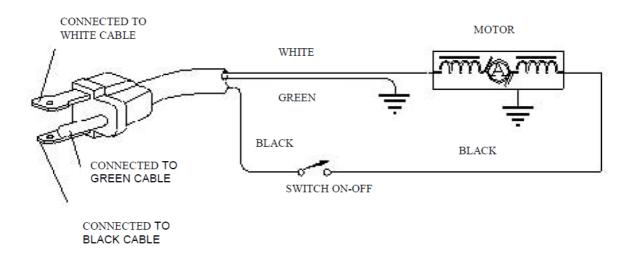
- **✓ PART NUMBER**
- ✓ DESCRIPTION
- ✓ MODEL NUMBER

NOTE: Drawing numbers are for identification purposes only.

#### **III.-TROUBLE SHOOTING CHART.**

PROBLEM	POSSIBLE CAUSE	SOLUTION
	1 Not firmly plugged in.	1 Check attachment plug.
	2 Bad ON-OFF switch.	2 Replace switch.
A) Motor does not work	3 Line cord open	3 Replace cord.
	4 Motor open	4 Check motor and wiring.
	5 Fan blockage by material	5 Remove obstruction
	1 Belt broken.	1 Replace belt.
B) Motor works but cleaner	2 Blockage air system.	2 Remove obstruction.
does not pick up/has suction	3 Fan broken.	3 Replace fan.
	4 Worn brush roller.	4 Replace brush roller.
	5 Motor slow.	5 Check carbon brushes.
	6 Bag full.	6 Empty bag (or change paper bag).
	1 Worn carbon brushes.	1 Replace brushes.
C) Motor works incorrectly	2 Detective armature.	2 Check spark, replace
	3 Bad electrical connection.	3 Check wiring.
	4 Detective On-Off switch. 4 Replace switch.	
	1 Ball bearing worn out	1 Replace
	2 Ball bearing holder	
D) Brush roll vibrates.	damaged	2 Replace ball bearing holder.

#### IV.-WIRING DIAGRAM



## V.-ELECTRICAL RATING

AMPERES	VOLTS	HZ
7	120	60

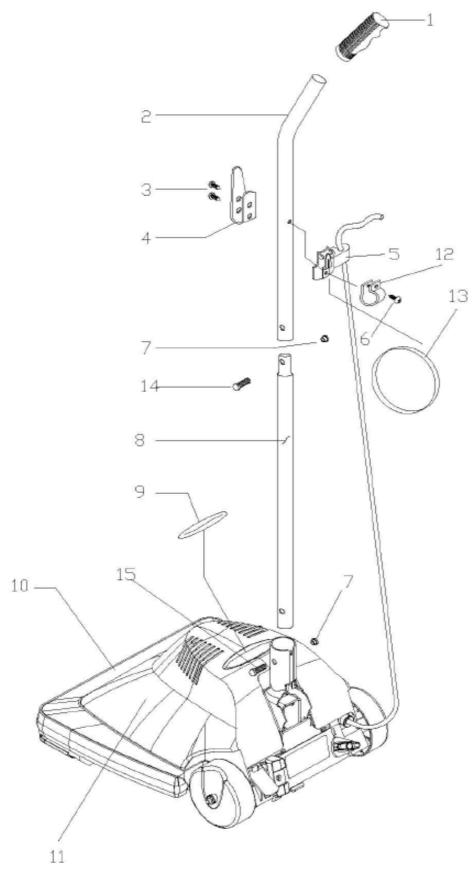
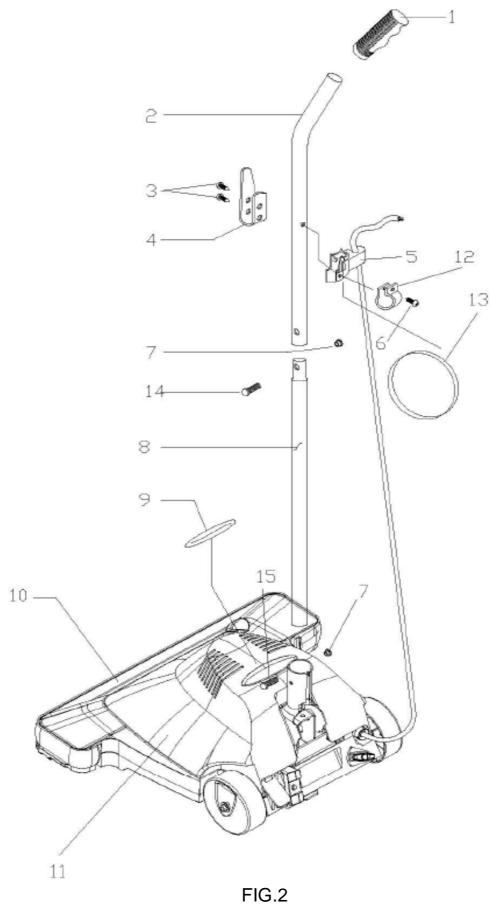


FIG.1.



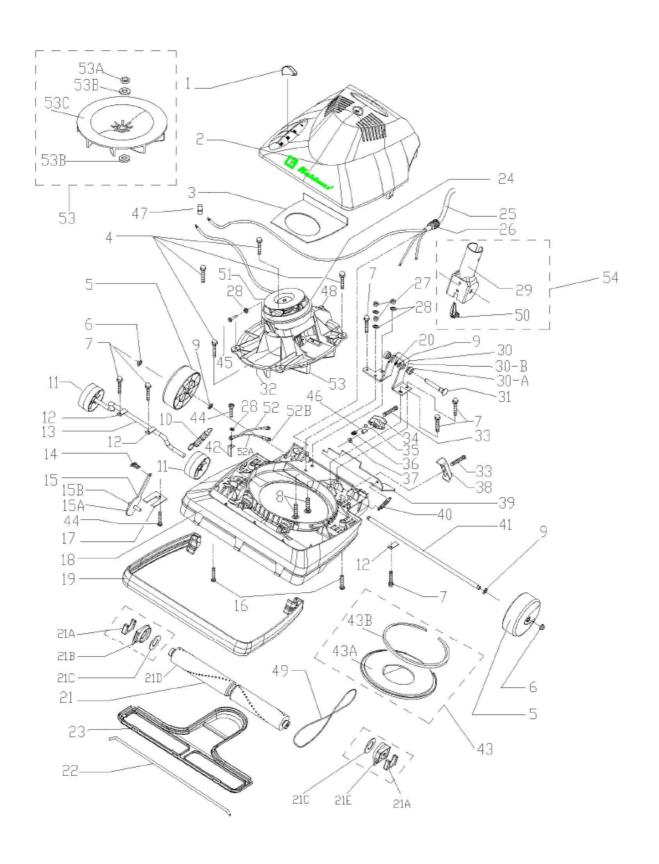
#### **EXTERNAL PARST OF PLASTIC UPRIGHT**

No	PART No	DESCRIPTION	U-80
1	13-0947-5	HANDLE GRIP	1
2	05-4091-01-2	UPPER HANDLE BACK	1
3	01-0290-5	SCREW 10 X 3/8	2
4	05-4089-01-6	CORD HOOK BLACK U-75	1
5	13-1462-4	CORD RETAINER	1
6	01-0283-0	SCREW 8 X 1/2	1
7	02-0141-8	LOCK NYLON NUT	2
8	05-4090-01-4	LOWER HANDLE BLACK U-75	1
9	17-4777-01-1	LABEL U-75/95	1
10	13-2883-0	PLASTIC CHASSIS	1
11	13-2949-03-3	TAMPO- PLASTIC COVER	1
12	13-0304-9	RETEN CABLE	1
13	12-0814-01-7	BELT .0250 X 3 7/16"	1
14	01-2034-01-3	SPECIAL SCREW FOR HANDLE	1
15	01-2034-5	SPECIAL SCREW FOR HANDLE 10-32 X 1 ¾	1

#### **EXTERNAL PARST OF PLASTIC UPRIGHT**

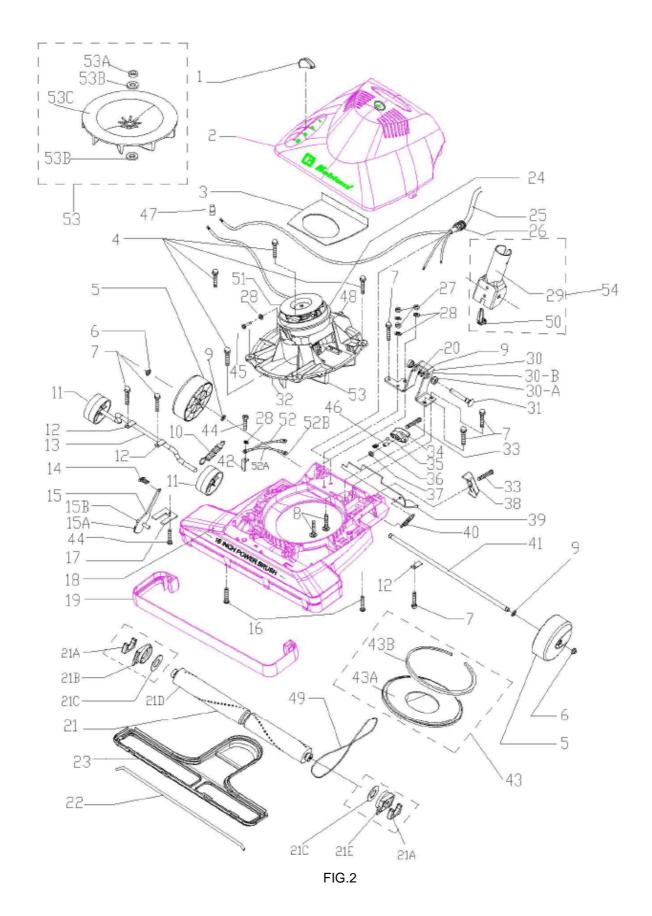
No	PART No	DESCRIPTION	U-90
1	13-0947-5	HANDLE GRIP	1
2	05-4091-01-2	UPPER HANDLE BACK	1
3	01-0290-5	SCREW 10 X 3/8	2
4	05-4089-01-6	CORD HOOK BLACK U-75	1
5	13-1462-4	CORD RETAINER	1
6	01-0283-0	SCREW 8 X 1/2	1
7	02-0141-8	LOCK NYLON NUT	2
8	05-4090-01-4	LOWER HANDLE BLACK U-75	1
9	17-4777-01-1	LABEL U-75/95	1
10	13-3825-01-8	TAMPO-PLASTIC CHASSIS	1
11	13-2949-03-3	TAMPO- PLASTIC COVER	1
12	13-0304-9	RETEN CABLE	1
13	12-0814-01-7	BELT .0250 X 3 7/16"	1
14	01-2034-01-3	SPECIAL SCREW FOR HANDLE	1
15	01-2034-5	SPECIAL SCREW FOR HANDLE 10-32 X 1 ¾	1

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# X.-LIST INTERNAL PARTS UPRIGHT VACUUM CLEANER U-80 INTERNAL PARTS OF PLASTIC UPRIGHT

9-03-3 T 936-0 B 900-6 S 144-6 B 1571-0 V 199-1 S 1589-4 F 1589-0 A 159-0 A	DESCRIPTION  KNOB CAM  FAMPO- PLASTIC COVER  BAFFLE  BACK WHEEL  WASHER CAP RETAINER  BCREW HEXAGONAL No 10-16X5/8  BCREW HEXAGONAL No 10-16X5/8  BCREW HEXAGONAL NO 10-16X5/8  BCREW HO X 5/8  FLAT WASHER 5/16 X ½  FRONT AXLE SPRING  FRONT WHEEL  AXLE RETAINER PLATE  GALVANIZED FRONT AXLE  BCREW B TYPE NO 6  CAM ASSY  CAM  BCCREW TYPE NO 6X5/8 PHILLIPS  CAM RETAINER PLATE  PLASTIC CHASSIS  YELLOW FOR MOLDING PLASTIC UPRIGTH  ROCK WASHER PO-25  BRUSH ROLLER ASSY 1 POSITION  BRUSH ROLLER ASSY 16"  BASKET END CAP  LEFT BERAING SUPPORT  FELT WASHER  ROLLER ASSY ENCERDADO 1.400 12"  BEARING 11/16	U-80  1  1  1  4  2  2  6  2  3  1  1  1  1  1  1  1  1  1  1  1  1
9-03-3 T	FAMPO- PLASTIC COVER BAFFLE BCREW B TYPE 10-16 X ¾ BACK WHEEL WASHER CAP RETAINER BCREW HEXAGONAL No 10-16X5/8 BCREW 10 X 5/8 FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE BALVANIZED FRONT AXLE BCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM BOLT FOR CAM BCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS WELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" BASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 4 2 2 6 6 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
336-0 B 500-6 S 500-6 S 144-6 B 571-0 V 199-1 S 664-1 S 689-4 F 808-7 F 143-8 F 189-0 A 9-02-3 C 551-7 S 57-3 C 5345-5 B 6345-5 B 6345-5 B 6345-5 B 6345-5 B 635-7 B 635-7 B 6369-9 R	BAFFLE BCREW B TYPE 10-16 X ¾ BACK WHEEL WASHER CAP RETAINER BCREW HEXAGONAL No 10-16X5/8 BCREW 10 X 5/8 FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE BALVANIZED FRONT AXLE BCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM BOLT FOR CAM BOCKEW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" BASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 4 2 2 2 6 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
500-6 S 144-6 B 571-0 V 199-1 S 564-1 S 589-4 F 589-4 F 143-8 F 143-8 F 143-8 F 143-8 F 143-8 F 143-6 C 155-7 S 153-6 C 153-6 C 153-6 C 153-7 S 153-7	SCREW B TYPE 10-16 X 3/4 BACK WHEEL WASHER CAP RETAINER SCREW HEXAGONAL No 10-16X5/8 SCREW 10 X 5/8 FLAT WASHER 5/16 X 3/2 FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE SCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM SCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	4 2 2 6 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
444-6   B   671-0   W   199-1   S   664-1   S   689-4   F   143-8   F   143-8   F   143-8   F   143-6   S   551-7   S   57-3   C   5345-5   B   593-3   S   721-6   C   583-0   F   143-6   B   522-8   C   530-3   L   130-7   F   299-3   R   252-9   B   522-9   B   522-	BACK WHEEL WASHER CAP RETAINER BCREW HEXAGONAL No 10-16X5/8 BCREW 10 X 5/8 FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE BCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM BOLT FOR CAM BOCKEW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	2 6 2 3 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
199-1 S 664-1 S 689-4 F 689-4 F 689-4 F 689-6 F 690-2 G 651-7 S 651-7 S 651-7 S 697-3 C 6345-5 B 693-3 S 721-6 C 6383-0 F 62-02-3 Y 69-9 R 6375-7 B 612-6 G 6301-3 L 630-7 F 699-3 R 625-9 B	GCREW HEXAGONAL No 10-16X5/8 GCREW 10 X 5/8 FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE GCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM GCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	6 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1
664-1 S 689-4 F 689-4 F 608-7 F 143-8 F 189-0 A 9-02-3 G 551-7 S 597-3 C 5345-5 B 93-3 S 721-6 C 883-0 F 12-02-3 Y 169-9 F 113-6 B 575-7 B 113-6 B 502-8 B 501-3 L 130-7 F 299-3 R	GCREW 10 X 5/8 FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE GCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM GCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	2 3 1 2 3 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1
589-4 F   589-4 F   589-4 F   589-4 F   5908-7 F   143-8 F   143-8 F   189-0 A   9-02-3 G   551-7 S   5513-6 G   345-5 B   93-3 S   721-6 C   383-0 F   2-02-3 Y   143-6 B   575-7 B   143-6 B   575-7 B   143-6 B   575-7 B   143-6 B   1552-8 G   1522-8 G   1522-8 G   1522-8 G   1522-9 B   153-52-9 B   153-52-9 B   153-63-7 F    153-63-7 F   153-63-7 F   153-63-7 F    153-63-7 F   153-63-7 F    153-63-7 F   153-63-7 F    153-63-7 F   153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153-63-7 F    153	FLAT WASHER 5/16 X ½ FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE SCREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM SCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	3 1 2 3 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1
808-7 F 143-8 F 143-8 F 189-0 A 9-02-3 G 551-7 S 567-3 C 5613-6 C 345-5 B 193-3 S 721-6 C 383-0 F 2-02-3 Y 143-6 B 575-7 B 143-6 B 502-8 G 501-3 L 130-7 F 299-3 R 252-9 B	FRONT AXLE SPRING FRONT WHEEL AXLE RETAINER PLATE GALVANIZED FRONT AXLE BOREW B TYPE No 6 CAM ASSY CAM BOLT FOR CAM BOLT FOR CAM BOCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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889-0 A 9-02-3 G 9-02-3 G 551-7 S 697-3 C 613-6 C 845-5 B 93-3 S 721-6 C 883-0 P 2-02-3 Y 169-9 R 169-9 R 1413-6 B 522-8 G 301-3 L 130-7 F 299-3 R 252-9 B	AXLE RETAINER PLATE GALVANIZED FRONT AXLE GCREW B TYPE No 6 CAM ASSY CAM BOLT FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	3 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1
9-02-3 G 551-7 S 697-3 C 613-6 C 6345-5 B 993-3 S 721-6 C 6883-0 P 2-02-3 Y 169-9 R 1413-6 B 522-8 G 601-3 L 130-7 F 299-3 R	GALVANIZED FRONT AXLE SCREW B TYPE No 6 CAM ASSY CAM BOLT FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1
551-7 S 597-3 C 513-6 C 545-5 E 593-3 S 721-6 C 583-0 F 2-02-3 Y 169-9 R 575-7 E 113-6 B 522-8 G 501-3 L 130-7 F 299-3 R	CAM ASSY CAM BOLT FOR MOLDING PHASTIC UPRIGHT BOLT FOR MOLDING PLASTIC UPRIGHT BOLT FOR MOLDIN	1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1
897-3 C 613-6 C 645-5 E 993-3 S 721-6 C 883-0 F 2-02-3 Y 169-9 R 675-7 E 113-6 E 622-8 G 301-3 L 130-7 F 299-3 R	CAM ASSY CAM BOLT FOR CAM BOLT FOR CAM BOCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1
513-6 C 545-5 B 593-3 S 721-6 C 583-0 F 2-02-3 Y 69-9 R 575-7 B 113-6 B 522-8 C 301-3 L 130-7 F 299-3 R	CAM BOLT FOR CAM BOLT FOR CAM BOCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1
993-3 S 721-6 C 883-0 F 2-02-3 Y 69-9 F 875-7 B 113-6 B 522-8 G 301-3 L 130-7 F 299-3 F 252-9 B	SCREW TYPE No 6X5/8 PHILLIPS CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	2 1 1 1 1 1 1 - 1 1 2
721-6 C 883-0 F 2-02-3 Y 469-9 R 875-7 B 113-6 B 522-8 C 801-3 L 130-7 F 299-3 R 252-9 B	CAM RETAINER PLATE PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 1 1 1 1 - 1 1 2
883-0 F 2-02-3 Y 469-9 R 375-7 B 113-6 B 522-8 G 301-3 L 130-7 F 299-3 R 252-9 B	PLASTIC CHASSIS YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 1 1 - 1 1 2
2-02-3 Y 169-9 R 375-7 B 113-6 B 522-8 G 301-3 L 130-7 F 299-3 R 252-9 B	YELLOW FOR MOLDING PLASTIC UPRIGTH ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 1 - 1 1 2
469-9 R 375-7 B 413-6 B 522-8 G 301-3 L 130-7 F 299-3 R 252-9 B	ROCK WASHER PO-25 BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 - 1 1 2
875-7 B 113-6 B 522-8 G 801-3 L 130-7 F 299-3 R 252-9 B	BRUSH ROLLER ASSY 1 POSITION BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 - 1 1 2 1
H13-6 B 522-8 G 801-3 L 130-7 F 299-3 R 252-9 B	BRUSH ROLLER ASSY 16" GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	- 1 1 2 1
522-8 G 301-3 L 130-7 F 299-3 R 252-9 B	GASKET END CAP LEFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 1 2 1
301-3 L 130-7 F 299-3 R 252-9 B	EFT BERAING SUPPORT FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	1 2 1
130-7 F 299-3 R 252-9 B	FELT WASHER ROLLER ASSY ENCERDADO 1.400 12"	2
299-3 R 252-9 B	ROLLER ASSY ENCERDADO 1.400 12"	1
	BEARING 11/16	1
		1 1
	BOTTOM PLATE RETAINER	1
	ROLLER CAVER ASSY WITH TILT	1
	COOLING CYLINDER	1 1
	CABLE OF U-75 ASSY	1
	GROMMET HEYCO 1232 HEXAGONAL NUT No 10x204	3
	WASHER STARTS No 10X204	5
	CHROMED YOKE	1
	YOKE SUPPORT BUSHING ASSY	1
148-7 B	BUSHING YOKE	2
725-7 Y	YOKE SUPPORT	1
	BOLT FOR YOKE	1
	MOTOR MOUNT GASKET	1
	SCREW 8.18X 3/4"	2
	KNOB COUPLING BAG	1 1
	CRAZY FORK BULLETS  KNOB SPRING	1 1
	FLAT WASHER(02-0101)	1
	BAG SUPPORT	1
		1
		1
		1
		1
		2
		1
		1
		1
		1
		1
		1
		1
		1
273-3 S		1
		1
99-2 A		2
099-2 A 664-3 G 319-4 G		3
099-2 A 664-3 G 319-4 G 197-1 T	HIDDINE KIT DI ARTIC	1 1
099-2 A 664-3 G 319-4 G 197-1 T 524-4 T		2
099-2 A 664-3 G 319-4 G 197-1 T 524-4 T 221-7 B	BUSHING PLASTIC TURBINE	1
099-2 A 664-3 G 319-4 G 197-1 T 524-4 T 221-7 B	BUSHING PLASTIC TURBINE	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	116-0 F 122-4 F 193-1 (08-9 F 145-3 F 14-01-5 F 170-7 F 183-0 F 197-6 F 173-3 F 199-2 F 164-3 (19-4 F 17-1 F 17-3 F 199-2 F 164-3 (19-4 F 17-1 F 17-3 F 199-2 F 19-4 F 19-	#16-0 PEDAL SPRING HANDLE UPRIGHT #122-4 REAR WHEEL HUB #193-1 GROUNDING TERMINAL #108-9 FAN COVER ASSY #45-3 FAN COVER #4-01-5 FAN COVER GASKET #70-7 SCREW 6X3/8" "A" #83-0 SCREW T TYPE 8-32X1/4 #97-6 SPACER #37-9 CABLE CONNECTOR #9-01-9 BALANCE SWITCH #4-01-7 BELT POLYURETHANE .0250 X 3 7/16" #73-3 SWICTH ACTUATOR #99-2 ASSY MOTOR UPRIGHT #64-3 GROUND CORD ASSY #19-4 GROUNDING CABLE #197-1 TERMINAL OF EARTH RETURN #124-4 TURBINE KIT PLASTIC #121-7 BUSHING PLASTIC TURBINE #123-2 FIBER WASHER INT. 0.315



# XII.-LIST INTERNAL PARTS UPRIGHT VACUUM CLEANER U-90 INTERNAL PARTS OF PLASTIC UPRIGHT

	IN	TERNAL PARTS OF PLASTIC UPRIGHT	
No	PART No	DESCRIPTION	U-90
1	13-3147-9	KNOB CAM	1
2	13-2949-03-3	TAMPO- PLASTIC COVER	1
3	12-0936-0	BAFFLE	1
4	01-1500-6	SCREW B TYPE 10-16 X 3/4	4
<u>5</u>	13-3144-6 04-0671-0	WASHER CAP RETAINER	2 2
7	01-1499-1	SCREW HEXAGONAL No 10-16X5/8	6
8	01-0664-1	SCREW 10 X 5/8	2
9	04-0589-4	FLAT WASHER 5/16 X ½	3
10	24-0308-7	FRONT AXLE SPRING	1
11	13-3143-8	FRONT WHEEL	2
12	05-4489-0	AXLE RETAINER PLATE	3
13	25-1349-02-3	GALVANIZED FRONT AXLE	1 1
14	01-1651-7	SCREW B TYPE No 6	1 1
15 15-A	46-3697-3 05-5513-6	CAM ASSY CAM	1 1
15-A 15-B	25-1345-5	BOLT FOR CAM	1
16	01-0093-3	SCREW TYPE No 6X5/8 PHILLIPS	2
17	05-4721-6	CAM RETAINER PLATE	1
18	13-3825-01-8	PLASTIC CHASSIS	1
19	12-0952-02-3	YELLOW FOR MOLDING PLASTIC UPRIGTH	1
20	04-0469-9	ROCK WASHER PO-25	1
21	46-2413-6	BRUSH ROLLER ASSY 16"	1 1
21-A 21-B	12-0522-8	GASKET END CAP LEFT BERAING SUPPORT	1 1
21-B 21-C	13-1801-3 37-0130-7	FELT WASHER	2
21-C	45-0299-3	ROLLER ASSY ENCERDADO 1.400 12"	1
21-D	45-0457-7	ENCERDADO ROLL OF 16"	1
21-E	13-1252-9	BEARING 11/16	1
22	25-0997-4	BOTTOM PLATE RETAINER	1
23	46-2428-4	ROLLER COVER ASSY	1
24	13-3146-1	COOLING CYLINDER	1 1
25	28-1644-5	CABLE OF U-75 ASSY	1 1
<u>26</u>	12-0953-5 02-0041-0	GROMMET HEYCO 1232 HEXAGONAL NUT No 10x204	3
28	04-0271-9	WASHER STARTS No 10X204	5
29	05-4734-02-5	CHROMED YOKE	1
30	46-3260-0	YOKE SUPPORT BUSHING ASSY	1
30-A	13-3148-7	BUSHING YOKE	2
30-B	05-4725-7	YOKE SUPPORT	1
31	25-1346-3	BOLT FOR YOKE	1 1
32	12-0495-01-5	MOTOR MOUNT GASKET SCREW 8.18X 3/4"	1
33 34	01-0071-9 13-2126-4	KNOB COUPLING BAG	1
35	26-0001-3	CRAZY FORK BULLETS	1
36	24-0014-1	KNOB SPRING	1
37	04-0026-7	FLAT WASHER(02-0101)	1
38	13-2127-2	BAG SUPPORT	1
39	05-4724-02-6		1
40	24-0316-0	PEDAL SPRING HANDLE UPRIGHT	1
41	25-1322-4	REAR WHEEL HUB	1 1
42	05-4993-1 46-3208-9	GROUNDING TERMINAL FAN COVER ASSY	1 2
43-A	13-3145-3	FAN COVER	1
43-B	12-0834-01-5	FAN COVER GASKET	1
44	01-0270-7	SCREW 6X3/8" "A"	2
45	01-1683-0	SCREW T TYPE 8-32X1/4	1
46	05-0997-6	SPACER	1
47	10-0137-9	CABLE CONNECTOR	1 1
48	11-0159-01-9	BALANCE SWITCH  RELT DOLYLIDETHANE 0250 Y 3 7/16"	1
49 50	12-0814-01-7 13-3273-3	BELT POLYURETHANE .0250 X 3 7/16" SWICTH ACTUATOR	1 1
51	46-3099-2	ASSY MOTOR UPRIGHT	1
52	28-1664-3	GROUND CORD ASSY	1
52-A	09-1319-4	GROUNDING CABLE	2
52-B	30-0197-1	TERMINAL OF EARTH RETURN	3
53	45-0524-4	TURBINE KIT PLASTIC	1
53 A	26-0221-7	BUSHING PLASTIC TURBINE	1
53 B	04-0123-2	FIBER WASHER INT. 0.315	2
53-C 54	13-2442-5 46-3433-3	9 TURBINE BLADES SWITCH-YOKE ACTUATOR	1 1
	<del></del>	OWNORFIONE ACTUATOR	<u> </u>



## **FACTORY AUTHORIZED SERVICE**

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